



Minimum Evaporating Temp. With:

- 25 °C Suction Gas Return
- 10 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	11.60	14.45	17.75	21.60	26.00	31.10				
25.0	11.10	13.95	17.15	20.90	25.10	30.00	32.20	35.70		
30.0	10.55	13.30	16.45	20.10	24.20	28.90	31.00	34.30	37.30	40.50
35.0	9.93	12.65	15.70	19.20	23.20	27.70	29.70	32.90	35.80	38.80
40.0	9.28	11.95	14.90	18.30	22.10	26.40	28.40	31.40	34.20	37.10
45.0		11.20	14.10	17.30	21.00	25.10	26.90	29.90	32.50	35.30
50.0			13.20	16.30	19.80	23.80	25.50	28.30	30.80	33.40
55.0				15.25	18.55	22.30	24.00	26.60	29.00	31.50
60.0					17.35	20.90	22.50	24.90	27.20	29.60
65.0					16.05	19.40	20.90	23.20	25.30	27.60

50 Hz

ZR11M3E-TWD

R22

Cond °C	Power, kW									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	3.79	3.81	3.82	3.83	3.85	3.91				
25.0	4.24	4.27	4.27	4.27	4.28	4.30	4.32	4.36		
30.0	4.73	4.76	4.77	4.76	4.75	4.76	4.77	4.79	4.81	4.85
35.0	5.24	5.29	5.31	5.30	5.29	5.28	5.28	5.28	5.30	5.32
40.0	5.78	5.86	5.89	5.89	5.88	5.86	5.86	5.85	5.85	5.86
45.0		6.46	6.52	6.54	6.54	6.52	6.51	6.50	6.49	6.49
50.0			7.20	7.24	7.25	7.24	7.23	7.22	7.21	7.20
55.0				8.00	8.03	8.03	8.03	8.02	8.01	8.00
60.0					8.88	8.90	8.90	8.90	8.89	8.88
65.0					9.80	9.85	9.85	9.86	9.86	9.85

Cond °C	Current at 400 V, A									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	9.91	9.94	9.95	9.97	10.00	10.07				
25.0	10.31	10.35	10.35	10.35	10.35	10.39	10.41	10.46		
30.0	10.77	10.81	10.81	10.80	10.79	10.79	10.81	10.84	10.88	10.93
35.0	11.27	11.33	11.35	11.34	11.32	11.30	11.31	11.32	11.34	11.38
40.0	11.84	11.93	11.96	11.96	11.94	11.92	11.91	11.91	11.92	11.95
45.0		12.60	12.66	12.68	12.67	12.65	12.64	12.63	12.63	12.64
50.0			13.45	13.49	13.50	13.49	13.48	13.47	13.47	13.47
55.0				14.41	14.45	14.45	14.45	14.45	14.44	14.45
60.0					15.51	15.54	15.55	15.56	15.56	15.56
65.0					16.70	16.77	16.79	16.81	16.82	16.83

Cond °C	Suction Mass Flow, g/s									
	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0
20.0	64.30	79.30	96.30	115.50	138.00	163.00				
25.0	63.80	79.10	96.20	115.50	137.50	163.00	173.50	191.50		
30.0	62.90	78.40	95.80	115.00	137.00	162.00	173.00	190.50	206.00	223.00
35.0	61.60	77.50	95.00	114.50	136.50	161.50	172.00	189.50	205.00	221.00
40.0	60.00	76.20	93.80	113.50	135.50	160.00	171.00	188.00	203.00	219.00
45.0		74.50	92.40	112.00	134.00	158.50	169.00	186.00	201.00	217.00
50.0			90.70	110.50	132.00	156.50	167.00	184.00	199.00	215.00
55.0				108.50	130.00	154.50	165.00	181.50	196.50	212.00
60.0					128.00	152.00	162.50	179.00	193.50	209.00
65.0					125.50	149.50	159.50	176.00	190.50	206.00

### **COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Displacement @ 50 Hz, m³/h	25.1
Length/Width, mm	319/357
Height, mm	525
Net Weight, kg	96
Gross Weight, kg	107
Rotalock Suction, inch	1 3/4
Rotalock Discharge, inch	1 1/4
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	4.1
Oil type (original charge)	POE RL32-3MAF
Oil type (approved oils)	POE RL32-3MAF, POE MOBIL EAL Arctic 22 CC
Base mounting (hole dia), mm	220 x 220 (8.5)
Sound Pressure @ 1m (HT), dBA	67
Sound Power (HT), dBA	78
Sound Power with Sound Shell (HT), dBA	66
Sound Conditions (HT, Temperatures: Evap./Cond./Suction at freq./speed)	7 / 54 / 18 °C at 50 Hz
PED Category	2
Max. Internal Free Volume, l	21.2
High Side PS gauge, bar	32
Low Side PS gauge, bar	20
Low Side TS Max., °C	52
Low Side TS Min., °C	-35
Refrigerant's GWP	1810
Refrigerant's classification	A1

### **COMPRESSOR ELECTRICAL DATA (380-420 V / 3~ / 50 Hz)**

Maximum Operating Current, A	20
Locked Rotor Current, A	123
Winding Resistance, ohm	1.04
Default Enclosure Class	IP 54 (IEC 34)

### **ACCESSORIES INCLUDED**

Mounting Grommets	Standard
Discharge Temperature Protection	Internal Thermistor

### **ACCESSORIES OPTIONAL**

Crankcase Heater	49 W External
Oil Control System	ALCO Trax-Oil OM3
Sound Attenuation	Sound Shell (10dBA)
Mounting Grommets	Hard Mounts for Paralleling

### **MOTOR OPTIONS**

<b>Motor Code</b>	<b>Power Supply</b>	<b>Nominal Voltage, V</b>	<b>Start Connection</b>	<b>DOL Connection</b>	<b>Amps Factor</b>
TWD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TWD	460 V / 3~ / 60 Hz	460		Y	1.04